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The Estimated Value of Soviet Arms Transfers to the Third World: A New Methodology

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Interagency Intelligence Memorandum

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SCOPE NOTE	
Arms transfers are Moscow's major instrument for advancing its interests in the Third World. As a result, tracking Soviet arms deliveries has been an important intelligence priority since the mid-1950s.	
The Intelligence Community has used several measures to assess Moscow's arms transfer program. The Community periodically reviews and updates its methodology as better information provides improved insight into Moscow's program. For example, in the late 1970s, new data led to an increase of 70 to 100 percent in the estimated prices of most major Soviet military equipment. After 1980, incorporation of data on the tonnage of military deliveries again led to sharp rises in the estimated value of arms deliveries to many countries. This Memorandum discusses the latest revisions in the methodology used to estimate the value of Soviet arms transfers and the implications of the new values. In this Memorandum the Third World includes Communist LDCs—Vietnam, Cambodia, Cuba, Laos, North Korea, and Mongolia.	
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KEY JUDGMENTS

The Intelligence Community is increasing significantly its estimate of the dollar value of Soviet military deliveries to the Third World based on improvements in methodology. The value of Soviet military deliveries is now estimated at over \$75 billion during 1982-86, a 60-percent increase over the value derived under the old methodology and more than twice the \$32 billion in comparable US deliveries during the period.

The changes in valuation of Soviet arms deliveries arise primarily from an *increase in our estimate of the value per ton* of military support equipment—ammunition, spare parts, radar, and so forth. Support equipment accounts for 80 percent of total shipments by weight and usually cannot be identified on an item-by-item basis. The new methodology estimates the value of a ton of support equipment at \$20,500 (1985) instead of the \$7,000 used since 1980.

The new valuation is based on several factors:

— An improved estimate of the value per ton of support equip-
ment
— A broadened definition of what constitutes military tonnage to
include almost all goods delivered to military forces. For example, dual-use items such as transport helicopters and trucks
have been treated differently by different parts of the Intelli- gence Community in the past.
— More comprehensive coverage of exports
In addition, values were increased to reflect changes in prices and exchange rates. The valuation method for major military equipment—
warships, aircraft, combat vehicles, and so forth—has not changed.

The increase in the estimated value of Soviet deliveries is particularly large for countries fighting wars or insurgencies—Iraq, Vietnam, Nicaragua, Afghanistan. These nations receive large quantities of

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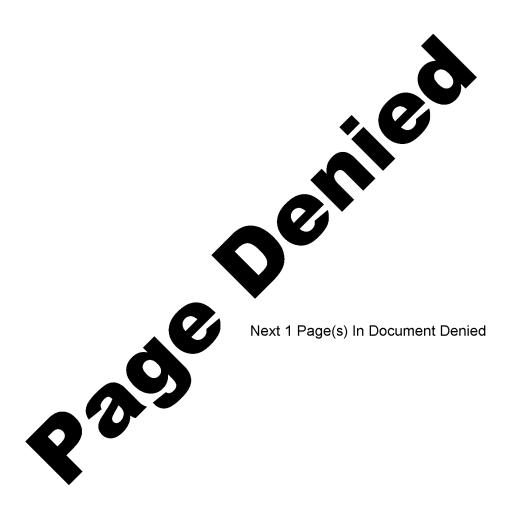
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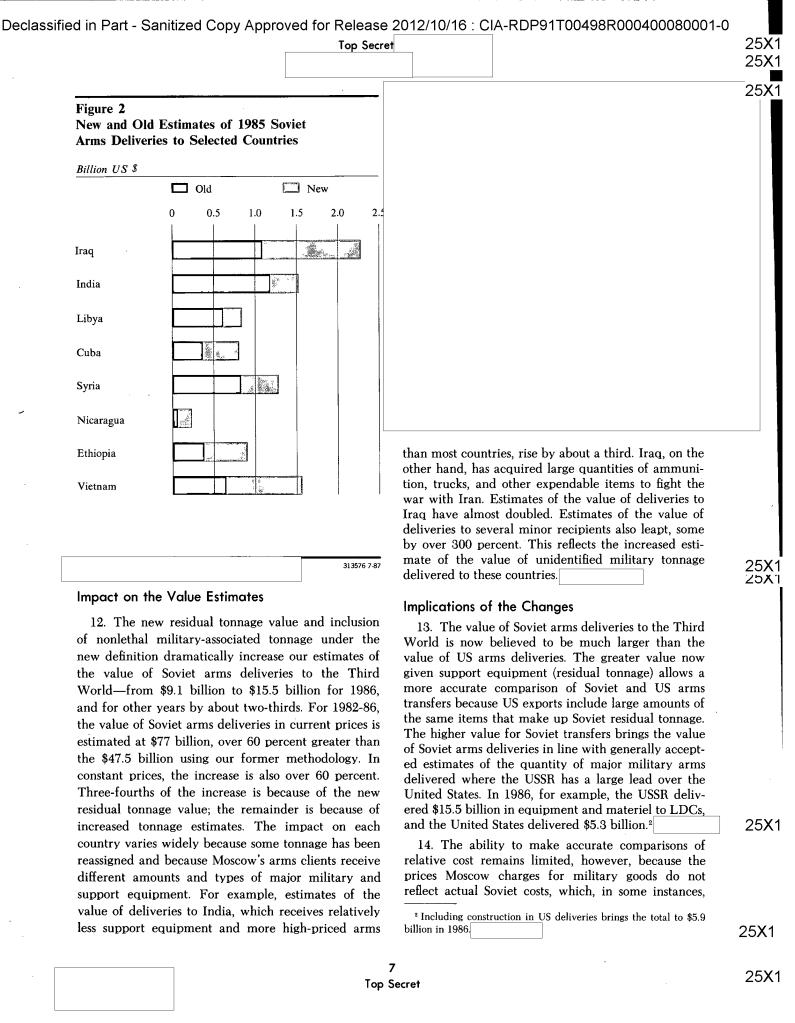
ammunition and spare parts that were significantly undervalued in the past. The impact of the revised methodology on the total value of Soviet deliveries to other clients varies widely, depending on the types of military equipment supplied. Deliveries to India in 1985 rise by less than a third under the new methodology, for example, because high-priced weapons comprise a higher proportion of Soviet military exports to India. In contrast, the estimated value of deliveries to several minor recipients rise much more sharply because they often receive only support equipment.

The changes in the methodology show that the cost to Moscow of its arms transfers is larger than previously estimated because we now estimate that there is a much larger grant element in the program. The increase in the estimate of the size of the Soviet program does not change estimates of Moscow's hard currency earnings from arms transfers, however, because estimates of hard currency transactions are made separately, using a methodology based on Soviet trade data. We now believe about 40 percent of Moscow's arms deliveries are made on a grant basis and roughly a tenth on a soft currency basis.

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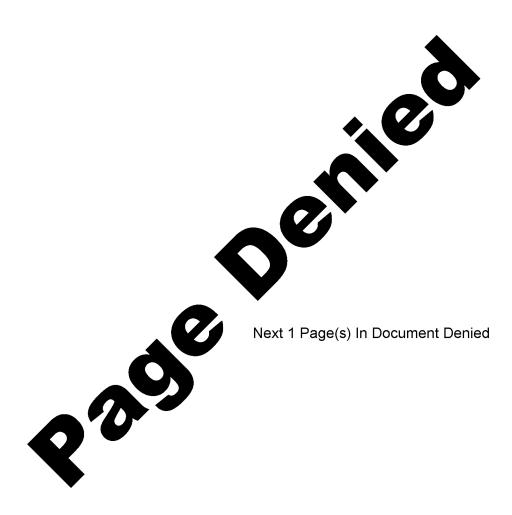
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15. The new values indicate that the Soviet arms ransfer program is more expensive to Moscow than previously believed because of a much larger grant element, underscoring Moscow's use of arms transfers to gain influence in the Third World. Comparison of the old estimates with estimates of arms sales made using Soviet trade data suggested that grant was almost exclusively confined to Communist LDCs. The old methodology also included half the value of deliveries to Ethiopia and one-third of deliveries to Congo as grant The new estimates support reporting to indicate that grants are sales are made separately and use a different methodology	Top Se	ecret
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ANNEX B

Current Value of Soviet A Third World, 1982-86	irms Deliveries to	the			Million US \$
Recipient	1982	1983	1984	1985	1986
Latin America					
Cuba	1,620	1,280	1,360	805	1,460
Grenada	6	NEGL	0	0	(
Guyana	0	0	0	15	(
Nicaragua	130	225	315	230	550
Peru	50	145	2	50	10
Middle East					
Algeria	1,050	495	540	385	560
Egypt	25	60	55	50	6
Iran	145	95	5	NEGL	0
Iraq	3,200	2,465	3,500	2,275	3,970
Jordan	280	120/70	20	400	200
Kuwait	0	45/75	65/110	25	13
Libya	1,120	940	1,165	840	730
Syria	2,430	3,340	1,920	1,280	575
North Yemen	295	470	60	165/195	225
South Yemen	245	785/600	325	395	185
Sub-Saharan Africa					
Angola	655	1,070	1,345	730	1,040
Benin	5	17	3	4	g
Burundi	3	8	10	4	ç
Cape Verde	0	2	2	2	3
Congo	0	70	95	30	17
Ethiopia	550	1,000	1,200	900/750	245
Ghana	0	0	16	0	6
Guinea	2	12	50	65	50
Guinea-Bissau	1	8	35	7	20
Madagascar	17	45	10	30	9
Mali	9	5	30	7	g
Mozambique	140	370	335	270	165
Nigeria	6	20	4	75	11
San Tome and Principa	0				

Note appears at end of table.

Sao Tome and Principe

Seychelles

Tanzania

Zimbabwe

Zambia

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NEGL

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Current Value of Soviet Arms Deliveries to the Third World, 1982-86

Million US \$

Recipient	1982	1983	1984	1985	1986
Recipient	1902	1900	1904	1903	1900
Asia					
Afghanistan	690	510	740	735	1,265
Bangladesh	15	5	NEGL	NEGL	1
Cambodia	60	140	195	335/275	125
India	1,430	980	930	1,525	1,885
Laos	85	140	125	85	55
North Korea	25	55	15	350	420
Vietnam	1,415	1,385	1,490/1,290	1,560/1,055	1,610

Note: Values over \$20 million rounded to the nearest \$5 million; values under \$20 million rounded to the nearest million. When one value is given, CIA and DIA estimates are the same or an average of the two was taken. When two values are given, CIA and DIA estimates varied by over 10 percent for major recipients (over \$100 million) or by over 20 percent for minor recipients. CIA estimates are given first

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ANNEX C

Constant Value of Soviet Arms Deliveries to the Third World, 1982-86

Million 1986 US \$

Recipient	1982	1983	1984	1985	1986
Latin America					
Cuba	2,155	1,625	1,770	990	1,460
Grenada	8	NEGL	0	0	0
Guyana	0	0	0	18	0
Nicaragua	175	285	400	285	550
Peru	65	185	3	60	10
Middle East					
Algeria	1,395	630	700	475	560
Egypt	35	75	70	60	6
Iran	195	110	8	NEGL	0
Iraq	4,255	3,130	4,550	2,800	3,970
Jordan	370	150/90	30	490	200
Kuwait	0	55/95	85/145	30	13
Libya	1,490	1,195	1,515	1,035	730
Syria	3,230	4,240	2,495	1,575	575
North Yemen	390	595	75	205/240	225
South Yemen	325	995/760	430	485	185
Sub-Saharan Africa				-	
Angola	870	1,355	1,750	900	1,040
Benin	7	20	4	5	9
Burundi	4	10	13	5	9
Cape Verde	0	3	3	2	3
Congo	0	90	120	35	17
Ethiopia	730	1,270	1,560	1,105/925	245
Ghana	0	0	20	0	6
Guinea	3	15	65	80	50
Guinea-Bissau	1	10	45	9	20
Madagascar	25	55	13	35	9
Mali	12	6	40	9	9
Mozambique	185	470	435	330	165
Nigeria	8	30	5	95	11
Sao Tome and Principe	0	8	3	0	3
Seychelles	3	20	7	2	25
Tanzania	65	25	45	50	20
Zambia	. 0	0	0	0	3
Zimbabwe	0	NEGL	0	0	
Note appears at end of table.					

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Constant Value of So to the Third World, 1	Million 1986 US				
Recipient	1982	1983	1984	1985	198
Asia					
Afghanistan	920	650	960	770	1,26
Bangladesh	20	6	NEGL	NEGL	
Cambodia	80	180	255	435/340	1:
India	1,900	1,245	1,210	1,875	1,88
Laos	115	180	165	105	Į.
North Korea	35	70		430	. 49
Vietnam	1,880	1,760	1,935/1,675	2,015/1,300	1,6
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